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(FILE 'HOME' ENTERED AT 16:14:19 ON 08 AUG 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,  
CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,  
DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:14:44 ON  
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SEA AMINOTRANSFERAS? AND SUBTILI?

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233 FILE GENBANK  
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180 FILE USPATFULL  
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L1 QUE AMINOTRANSFERAS? AND SUBTILI?

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FILE 'GENBANK, USPATFULL, CAPLUS, EMBASE, SCISEARCH, MEDLINE, BIOSIS,  
BIOTECHNO, ESBIODBASE, LIFESCI, DRUGU, PASCAL' ENTERED AT 16:17:06 ON 08  
AUG 2002

L2 783 S AMINOTRANSFERAS? AND SUBTILI?  
L3 593 DUP REM L2 (190 DUPLICATES REMOVED)  
L4 138 S L3 AND BIOTI?  
L5 63 S L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)  
L6 63 FOCUS L5 1-

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=> index bioscience medicine

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

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SESSION

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0.21

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INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI,  
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,

CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB,  
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66 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view  
search error messages that display as 0\* with SET DETAIL OFF.

=> s aminotransferas? and subtili?

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18	FILE ESBIODBASE
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35 FILES SEARCHED...

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1	FILE IFIPAT
7	FILE JICST-EPLUS
14	FILE LIFESCI
47	FILE MEDLINE
1	FILE NTIS
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1	FILE PROMT
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35 FILES HAVE ONE OR MORE ANSWERS, 66 FILES SEARCHED IN STNINDEX

L1 QUE AMINOTRANSFERAS? AND SUBTILI?

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=> file f1-f12

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=> s aminotransferas? and subtili?  
L2 783 AMINOTRANSFERAS? AND SUBTILI?

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L3 593 DUP REM L2 (190 DUPLICATES REMOVED)

=> s l3 and bioti?  
L4 138 L3 AND BIOTI?

<-----User Break----->  
u  
SEARCH ENDED BY USER

=> s l3 and (diaminopelargon? or adenosylmethioni?)  
L5 63 L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)

=> focus l5  
FOCUS NOT AVAILABLE IN 'GENBANK'.  
PROCESSING COMPLETED FOR L5  
ANSWERS FROM NON FOCUS FILES PUT AT END OF ANSWER SET.  
L6 63 FOCUS L5 1-

=> d ti l5 1-63

L5 ANSWER 1 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Genetic analysis of biotin operon in Bacillus  
**subtilis** natto OK2  
TITLE (TI): Direct Submission

L5 ANSWER 2 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genomic sequence of Corynebacterium glutamicum  
ATCC 13032  
TITLE (TI): Direct Submission

L5 ANSWER 3 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genome sequence of Clostridium perfringens, an  
anaerobic flesh-eater  
TITLE (TI): Direct Submission

L5 ANSWER 4 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genome sequence of Clostridium perfringens, an  
anaerobic flesh-eater  
TITLE (TI): Direct Submission

L5 ANSWER 5 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genome sequence of Clostridium perfringens, an  
anaerobic flesh-eater  
TITLE (TI): Direct Submission

L5 ANSWER 6 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete genome sequence of a multiple drug resistant  
Salmonella enterica serovar Typhi CT18

TITLE (TI): Direct Submission

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TITLE (TI): Complete genome sequence of a multiple drug resistant  
Salmonella enterica serovar Typhi CT18

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TITLE (TI): Complete genome sequence of a multiple drug resistant  
Salmonella enterica serovar Typhi CT18

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TITLE (TI): Complete genome sequence of a multiple drug resistant  
Salmonella enterica serovar Typhi CT18

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TITLE (TI): Complete genome sequence of a multiple drug resistant  
Salmonella enterica serovar Typhi CT18

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L5 ANSWER 11 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Comparative genomics of Listeria species

TITLE (TI): Direct Submission

L5 ANSWER 12 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Comparative genomics of Listeria species

TITLE (TI): Direct Submission

L5 ANSWER 13 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Genome sequence of Yersinia pestis, the causative agent  
of plague

TITLE (TI): Direct Submission

L5 ANSWER 14 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Genome sequence of Yersinia pestis, the causative agent  
of plague

TITLE (TI): Direct Submission

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TITLE (TI): Genome sequence of Yersinia pestis, the causative agent  
of plague

TITLE (TI): Direct Submission

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TITLE (TI): Genome sequence of Yersinia pestis, the causative agent  
of plague

TITLE (TI): Direct Submission

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TITLE (TI): Genome Sequence and Comparative Analysis of the  
Solvent-Producing Bacterium Clostridium acetobutylicum

TITLE (TI): Direct Submission

L5 ANSWER 18 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Massive gene decay in the leprosy bacillus  
 TITLE (TI): Direct Submission

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TITLE (TI): Massive gene decay in the leprosy bacillus  
 TITLE (TI): Direct Submission

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TITLE (TI): Massive gene decay in the leprosy bacillus  
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L5 ANSWER 21 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The genome sequence of the thermoacidophilic scavenger  
 Thermoplasma acidophilum  
 TITLE (TI): Direct Submission

L5 ANSWER 22 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus  
 sp. C-125 to Bacillus halodurans  
 TITLE (TI): Genetic analysis of the chromosome of alkaliphilic  
 Bacillus halodurans C-125  
 TITLE (TI): An improved physical and genetic map of the genome of  
 alkaliphilic Bacillus sp. C-125  
 TITLE (TI): Replication origin region of the chromosome of  
 alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Sequence analysis of a 32-kb region including the major  
 ribosomal protein gene clusters from alkaliphilic  
 Bacillus sp. strain C-125  
 TITLE (TI): Genome analysis of facultatively alkaliphilic Bacillus  
 halodurans C-125  
 TITLE (TI): Sequencing of three lambda clones from the genome of  
 alkaliphilic Bacillus sp. strain C-125  
 TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus  
 strain from an industrial point of view  
 TITLE (TI): Characterization and comparative study of the rrn  
 operons of alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Complete genome sequence of the alkaliphilic bacterium  
 Bacillus halodurans and genomic sequence comparison  
 with Bacillus **subtilis**  
 TITLE (TI): Direct Submission

L5 ANSWER 23 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus  
 sp. C-125 to Bacillus halodurans  
 TITLE (TI): Genetic analysis of the chromosome of alkaliphilic  
 Bacillus halodurans C-125  
 TITLE (TI): An improved physical and genetic map of the genome of  
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 TITLE (TI): Replication origin region of the chromosome of  
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 TITLE (TI): Sequence analysis of a 32-kb region including the major  
 ribosomal protein gene clusters from alkaliphilic  
 Bacillus sp. strain C-125  
 TITLE (TI): Genome analysis of facultatively alkaliphilic Bacillus  
 halodurans C-125  
 TITLE (TI): Sequencing of three lambda clones from the genome of  
 alkaliphilic Bacillus sp. strain C-125

TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view  
 TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus **subtilis**  
 TITLE (TI): Direct Submission

L5 ANSWER 24 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Reidentification of facultatively alkaliphilic Bacillus sp. C-125 to Bacillus halodurans  
 TITLE (TI): Genetic analysis of the chromosome of alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): An improved physical and genetic map of the genome of alkaliphilic Bacillus sp. C-125  
 TITLE (TI): Replication origin region of the chromosome of alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Sequence analysis of a 32-kb region including the major ribosomal protein gene clusters from alkaliphilic Bacillus sp. strain C-125  
 TITLE (TI): Genome analysis of facultatively alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Sequencing of three lambda clones from the genome of alkaliphilic Bacillus sp. strain C-125  
 TITLE (TI): Analysis of the genome of an alkaliphilic Bacillus strain from an industrial point of view  
 TITLE (TI): Characterization and comparative study of the rrn operons of alkaliphilic Bacillus halodurans C-125  
 TITLE (TI): Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus **subtilis**  
 TITLE (TI): Direct Submission

L5 ANSWER 25 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): A set of ordered cosmids and a detailed genetic and physical map for the 8 Mb Streptomyces coelicolor A3(2) chromosome  
 TITLE (TI): Direct Submission

L5 ANSWER 26 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491  
 TITLE (TI): Direct Submission

L5 ANSWER 27 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Complete DNA sequence of a serogroup A strain of Neisseria meningitidis Z2491  
 TITLE (TI): Direct Submission

L5 ANSWER 28 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypervariable sequences  
 TITLE (TI): Direct Submission

L5 ANSWER 29 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The genome sequence of the food-borne pathogen Campylobacter jejuni reveals hypervariable sequences  
 TITLE (TI): Direct Submission



L5 ANSWER 30 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The genome sequence of the food-borne pathogen  
Campylobacter jejuni reveals hypervariable sequences

TITLE (TI): Direct Submission

L5 ANSWER 31 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): A set of ordered cosmids and a detailed genetic and  
physical map for the 8 Mb Streptomyces coelicolor A3(2)  
chromosome

TITLE (TI): Direct Submission

L5 ANSWER 32 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive  
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 33 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive  
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 34 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive  
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 35 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive  
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 36 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): The complete genome sequence of the gram-positive  
bacterium Bacillus subtilis

TITLE (TI): Direct Submission

L5 ANSWER 37 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Nucleotide sequence of the Bacillus subtilis  
ribosomal RNA operon, rrnB

TITLE (TI): Cloning and nucleotide sequencing of genes for three  
small, acid-soluble proteins from Bacillus  
subtilis spores

TITLE (TI): Nucleotide sequence and organization of dnaB gene and  
neighbouring genes on the Bacillus subtilis  
chromosome

TITLE (TI): Cloning and nucleotide sequence of phoP, the regulatory  
gene for alkaline phosphatase and phosphodiesterase in  
Bacillus subtilis

TITLE (TI): Nucleotide sequence of the Bacillus subtilis  
phoR gene

TITLE (TI): Cloning and analysis of the Bacillus subtilis  
rpsD gene, encoding ribosomal protein S4

TITLE (TI): Catabolite repression of alpha-amylase gene expression  
in Bacillus subtilis involves a trans-acting  
gene product homologous to the Escherichia coli lacI  
and galR repressors

TITLE (TI): Analysis of the Bacillus **subtilis** tyrS gene: conservation of a regulatory sequence in multiple tRNA synthetase genes

TITLE (TI): Co-ordinate expression of the two threonyl-tRNA synthetase genes in Bacillus **subtilis**: control by transcriptional antitermination involving a conserved regulatory sequence

TITLE (TI): Identification of genes involved in utilization of acetate and acetoin in Bacillus **subtilis**

TITLE (TI): Regulation of the Bacillus **subtilis** acetate kinase gene by CcpA

TITLE (TI): Glycogen in Bacillus **subtilis**: molecular characterization of an operon encoding enzymes involved in glycogen biosynthesis and degradation

TITLE (TI): Identification of two distinct Bacillus **subtilis** citrate synthase genes

TITLE (TI): A Bacillus **subtilis** spore coat polypeptide gene, cotS

TITLE (TI): Identical amino acid sequence of the aroA(G) gene products of Bacillus **subtilis** 168 and B. **subtilis** Marburg strain

TITLE (TI): Structural organization of a Bacillus **subtilis** operon encoding menaquinone biosynthetic enzymes

TITLE (TI): A Bacillus **subtilis** malate dehydrogenase gene

TITLE (TI): Bacillus **subtilis** operon under the dual control of the general stress transcription factor sigma B and the sporulation transcription factor sigma H

TITLE (TI): Cloning, sequencing, and characterization of the Bacillus **subtilis** biotin biosynthetic operon

TITLE (TI): Cloning and characterization of the metE gene encoding S-adenosylmethionine synthetase from Bacillus **subtilis**

TITLE (TI): Three transport systems for the osmoprotectant glycine betaine operate in Bacillus **subtilis**: characterization of OpuD

TITLE (TI): Sequencing and functional annotation of the Bacillus **subtilis** genes in the 200 kb rrnB-dnaB region

TITLE (TI): Direct Submission

L5 ANSWER 38 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Deciphering the biology of Mycobacterium tuberculosis from the complete genome sequence

TITLE (TI): Direct Submission

L5 ANSWER 39 OF 63 GENBANK.RTM. COPYRIGHT 2002

TITLE (TI): Organization and nucleotide sequence of a new ribosomal operon in Escherichia coli containing the genes for ribosomal protein S2 and elongation factor Ts

TITLE (TI): The pyruvate dehydrogenase complex of Escherichia coli K12. Nucleotide sequence encoding the pyruvate dehydrogenase component

TITLE (TI): The pyruvate dehydrogenase complex of Escherichia coli K12. Nucleotide sequence encoding the dihydrolipoamide acetyltransferase component

TITLE (TI): Nucleotide sequence of the lipoamide dehydrogenase gene of Escherichia coli K12

TITLE (TI): Regulation of expression and nucleotide sequence of the Escherichia coli dapD gene

TITLE (TI): The nucleotide sequences of the ponA and ponB genes encoding penicillin-binding protein 1A and 1B of Escherichia coli K12

TITLE (TI): Protein fusions of beta-galactosidase to the

TITLE (TI): ferrichrome-iron receptor of Escherichia coli K-12  
 Glutamyl-tRNA synthetase of Escherichia coli. Isolation  
 and primary structure of the gltX gene and homology  
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 TITLE (TI): Iron hydroxamate transport of Escherichia coli:  
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 TITLE (TI): fhuC and fhuD genes for iron (III)-ferrichrome  
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 TITLE (TI): The speEspeD operon of Escherichia coli. Formation and  
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 TITLE (TI): Complementary DNA and derived amino acid sequence of  
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 the inter-alpha-trypsin inhibitor complex  
 TITLE (TI): Nucleotide sequence and organization of copper  
 resistance genes from Pseudomonas syringae pv. tomato  
 TITLE (TI): Nucleotide sequence of the gene encoding the GMP  
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 TITLE (TI): Characterization of the cyn operon in Escherichia coli  
 K12  
 TITLE (TI): Sequence analysis and regulation of the htrA gene of  
 Escherichia coli: a sigma 32-independent mechanism of  
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 TITLE (TI): Genetics and sequence analysis of the pcnB locus, an  
 Escherichia coli gene involved in plasmid copy number  
 control  
 TITLE (TI): Spermidine biosynthesis in Escherichia coli: promoter  
 and termination regions of the speED operon  
 TITLE (TI): Signalling proteins in enterobacterial AmpC  
 beta-lactamase regulation  
 TITLE (TI): Characterization of a leuA gene and an ARS element from  
 Mucor circinelloides  
 TITLE (TI): Nucleotide sequence of the aroP gene encoding the  
 general aromatic amino acid transport protein of  
 Escherichia coli K-12: homology with yeast transport  
 proteins  
 TITLE (TI): Molecular characterization of the nodulation gene,  
 nodT, from two biovars of Rhizobium leguminosarum  
 TITLE (TI): Identification and characterization of a new  
 Escherichia coli gene that is a dosage-dependent  
 suppressor of a dnaK deletion mutation  
 TITLE (TI): Structure and regulation of the gene for dGTP  
 triphosphohydrolase from Escherichia coli  
 TITLE (TI): Products of three accessory genes, pilB, pilC, and  
 pilD, are required for biogenesis of Pseudomonas  
 aeruginosa pili  
 TITLE (TI): Levanase operon of Bacillus subtilis includes  
 a fructose-specific phosphotransferase system  
 regulating the expression of the operon  
 TITLE (TI): Nucleotide sequence of a gene, hpt, for hypoxanthine  
 phosphoribosyltransferase from Vibrio harveyi  
 TITLE (TI): Nucleotide sequence of Rhizobium loti nodI  
 TITLE (TI): Nucleotide sequence and functions of mrk determinants  
 necessary for expression of type 3 fimbriae in  
 Klebsiella pneumoniae  
 TITLE (TI): Structural genes of glutamate 1-semialdehyde  
**aminotransferase** for porphyrin synthesis in a  
 cyanobacterium and Escherichia coli  
 TITLE (TI): Requirement of the RNA helicase-like protein PRP22 for

release of messenger RNA from spliceosomes

TITLE (TI): Gene sequences and comparison of the fimbrial subunits representative of Bacteroides nodosus serotypes A to I: class I and class II strains

TITLE (TI): Nucleotide sequence and characterization of the sfs1 gene: sfs1 is involved in CRP\*-dependent mal gene expression in Escherichia coli

TITLE (TI): Use of site-directed mutagenesis to enhance the epitope-shielding effect of covalent modification of proteins with polyethylene glycol

TITLE (TI): The nucleotide sequence of a voltage-gated chloride channel from the electric organ of Torpedo californica

TITLE (TI): Nucleotide and deduced amino acid sequence of the recA gene of Vibrio cholerae

TITLE (TI): Systematic sequencing of the Escherichia coli genome: analysis of the 0-2.4 min region

TITLE (TI): Cloning, sequence analysis, and overexpression of Escherichia coli folK, the gene coding for 7,8-dihydro-6-hydroxymethylpterin-pyrophosphokinase

TITLE (TI): Identification and characterization of the smbA gene, a suppressor of the mukB null mutant of Escherichia coli

TITLE (TI): Characterization of the gcd gene from Escherichia coli K-12 W3110 and regulation of its expression

TITLE (TI): The genes of the glutamine synthetase adenylation cascade are not regulated by nitrogen in Escherichia coli

TITLE (TI): Systematic sequencing of the Escherichia coli genome: analysis of the 2.4-4.1 min (110,917-193,643 bp) region

TITLE (TI): The 2'-5' RNA ligase of Escherichia coli. Purification, cloning, and genomic disruption

TITLE (TI): Direct Submission

L5 ANSWER 40 OF 63 USPATFULL  
 TI Full-length human cDNAs encoding potentially secreted proteins

L5 ANSWER 41 OF 63 USPATFULL  
 TI OVERCOMING DAPA **AMINOTRANSFERASE** BOTTLENECKS IN BIOTIN VITAMERS BIOSYNTHESIS

L5 ANSWER 42 OF 63 USPATFULL  
 TI DNA fragments containing biotin biosynthetase gene and use of the same

L5 ANSWER 43 OF 63 USPATFULL  
 TI Nucleic acids, proteins, and antibodies

L5 ANSWER 44 OF 63 USPATFULL  
 TI Nucleic acids, proteins and antibodies

L5 ANSWER 45 OF 63 USPATFULL  
 TI Nucleic acids, proteins and antibodies

L5 ANSWER 46 OF 63 USPATFULL  
 TI 32253 transferase family members and uses therefor

L5 ANSWER 47 OF 63 USPATFULL  
 TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 48 OF 63 USPATFULL  
 TI Expressed sequences of arabidopsis thaliana

L5 ANSWER 49 OF 63 USPATFULL  
 TI Computer readable genomic sequence of Haemophilus influenzae Rd, fragments thereof, and uses thereof

L5 ANSWER 50 OF 63 USPATFULL

TI Expressed sequences of arabidopsis thaliana  
 L5 ANSWER 51 OF 63 USPATFULL  
 TI Methods for identifying drug targets based on genomic sequence data  
 L5 ANSWER 52 OF 63 USPATFULL  
 TI Method to produce biotin  
 L5 ANSWER 53 OF 63 USPATFULL  
 TI Recombinant narbonolide polyketide synthase  
 L5 ANSWER 54 OF 63 USPATFULL  
 TI Biotechnological method of producing biotin  
 L5 ANSWER 55 OF 63 USPATFULL  
 TI Transgenic plants having increased biotin content  
 L5 ANSWER 56 OF 63 USPATFULL  
 TI Enhanced biotin biosynthesis in plant tissue  
 L5 ANSWER 57 OF 63 USPATFULL  
 TI Method to produce biotin  
 L5 ANSWER 58 OF 63 CAPLUS COPYRIGHT 2002 ACS  
 TI Biochemical and molecular characterization of taurine:pyruvate  
**aminotransferase** from the anaerobe Bilophila wadsworthia  
 L5 ANSWER 59 OF 63 CAPLUS COPYRIGHT 2002 ACS  
 TI Overcoming DAPA **aminotransferase** bottlenecks in biotin vitamers  
 L5 ANSWER 60 OF 63 CAPLUS COPYRIGHT 2002 ACS  
 TI Use of the biotin biosynthesis operon in Bacillus **subtilis** for  
 biotin fermentative preparation  
 L5 ANSWER 61 OF 63 SCISEARCH COPYRIGHT 2002 ISI (R)  
 TI Structural organization of microcystin biosynthesis in Microcystis  
 aeruginosa PCC7806: an integrated peptide-polyketide synthetase system  
 L5 ANSWER 62 OF 63 MEDLINE  
 TI Studies of the mode of action of ampiclenomycin.  
 L5 ANSWER 63 OF 63 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.  
 TI Crystal structure of **diaminopelargonic** acid synthase:  
 Evolutionary relationships between pyridoxal-5'-phosphate-dependent  
 enzymes.

=> d 15 41 42 54 57 59 60 ibib abs

L5 ANSWER 41 OF 63 USPATFULL  
 ACCESSION NUMBER: 2002:185643 USPATFULL  
 TITLE: OVERCOMING DAPA **AMINOTRANSFERASE** BOTTLENECKS  
 IN BIOTIN VITAMERS BIOSYNTHESIS  
 INVENTOR(S): VAN ARSDELL, SCOTT W., LEXINGTON, MA, UNITED STATES  
 YOCUM, R. ROGERS, LEXINGTON, MA, UNITED STATES  
 PERKINS, JOHN B., READING, MA, UNITED STATES  
 PERO, JANICE G., LEXINGTON, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002098556	A1	20020725
APPLICATION INFO.:	US 1997-914332	A1	19970714 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	MARK E. WADDELL, ESQ., BRYAN CAVE LLP, 245 PARK AVENUE,		

NEW YORK, NY, 10167-0034

NUMBER OF CLAIMS: 31  
EXEMPLARY CLAIM: 1  
NUMBER OF DRAWINGS: 4 Drawing Page(s)  
LINE COUNT: 951  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A method is disclosed for the increased production of biotin and the biotin precursor dethiobiotin using a bacterium that produces a lysine-utilizing DAPA **aminotransferase**. This method involves the use of a bacterium that is either grown in the presence of lysine or deregulated for lysine biosynthesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 42 OF 63 USPATFULL

ACCESSION NUMBER: 2002:152439 USPATFULL  
TITLE: DNA fragments containing biotin biosynthetase gene and use of the same  
INVENTOR(S): Mukumoto, Fujio, Toyonaka, JAPAN  
Nishio, Shoichi, Toyonaka, JAPAN  
Akimaru, Jiro, Nishinomiya, JAPAN  
Mitsuda, Satoshi, Takarazuka, JAPAN  
PATENT ASSIGNEE(S): Sumitomo Chemical Company, Limited, Osaka, JAPAN  
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6410293	B1	20020625
	WO 9839452		19980911
APPLICATION INFO.:	US 1998-180109		19981203 (9)
	WO 1998-JP858		19980302
			19981203 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 1997-47838	19970303
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	GRANTED	
PRIMARY EXAMINER:	Nashed, Nashaat T.	
ASSISTANT EXAMINER:	Fronza, Christian L.	
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch, LLP	
NUMBER OF CLAIMS:	24	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	9 Drawing Figure(s); 5 Drawing Page(s)	
LINE COUNT:	3567	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A DNA fragment containing a gene concerned in biotin biosynthesis and derived from a microorganism belonging to the genus *Sphingomonas*, a plasmid containing said DNA fragment, and a biotin-producing transformant containing said plasmid. There is provided a technique for utilizing a gene concerned in biotin biosynthesis and derived from a microorganism belonging to the genus *Sphingomonas*, for breeding of a biotin-producing micro-organism by genetic engineering.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 54 OF 63 USPATFULL

ACCESSION NUMBER: 2000:84053 USPATFULL  
TITLE: Biotechnological method of producing biotin  
INVENTOR(S): Birch, Olwen, Naters, Switzerland  
Brass, Johann, Ausserberg, Switzerland  
Fuhrmann, Martin, Visp, Switzerland  
Shaw, Nicholas, Visp, Switzerland  
PATENT ASSIGNEE(S): Lonza A.G., Basel, Switzerland (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6083712		20000704
	WO 9408023		19940414
APPLICATION INFO.:	US 1995-411768		19950608 (8)
	WO 1993-EP2688		19931001
			19950608 PCT 371 date
			19950608 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	CH 1992-3124	19921002
	CH 1993-2134	19930715
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	Granted	
PRIMARY EXAMINER:	Carlson, Karen Cochrane	
LEGAL REPRESENTATIVE:	Baker & Botts, L.L.P.	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	16 Drawing Figure(s); 16 Drawing Page(s)	
LINE COUNT:	2589	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB In DNA fragments and plasmids comprising the bioB, bioF, bioC, bioD and bioA genes responsible for biosynthesis of biotin, or their functionally equivalent genetic variants and mutants from enteric bacteria, the genes are arranged in a transcription unit. These DNA fragments and plasmids can be contained in microorganisms which can be used to produce biotin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 57 OF 63 USPATFULL

ACCESSION NUMBER: 95:78092 USPATFULL  
 TITLE: Method to produce biotin  
 INVENTOR(S): Campbell, John W., Fort Collins, CO, United States  
 Cheung, Alex, Fort Collins, CO, United States  
 Eddy, Christina K., Loveland, CO, United States  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Ludwigshafen, Germany, Federal Republic of (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5445952		19950829
APPLICATION INFO.:	US 1993-7559		19930122 (8)
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Wax, Robert A.		
ASSISTANT EXAMINER:	Kim, Hyosuk		
LEGAL REPRESENTATIVE:	Whyte Hirschboeck Dudek		
NUMBER OF CLAIMS:	3		
EXEMPLARY CLAIM:	2		
NUMBER OF DRAWINGS:	6 Drawing Figure(s); 5 Drawing Page(s)		
LINE COUNT:	1342		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method to enhance a cell's ability to produce biotin precursors and/or biotin by deregulating at least one enzyme of the fatty acid biosynthetic pathway in the cell, preferably an enzyme that carries out an early step in the pathway. Preferably, the biotin biosynthetic pathway is also deregulated. The invention includes biotin-producing cells in which at least one enzyme of the fatty acid biosynthetic pathway is deregulated, preferably by transforming the cells with nucleic acid sequences encoding at least one of those enzymes; methods to produce such cells; and use of such cells to produce biotin.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 59 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:64626 CAPLUS

DOCUMENT NUMBER: 130:123888

TITLE: Overcoming DAPA **aminotransferase** bottlenecks  
in biotin vitamers

INVENTOR(S): Perkins, John B.; Pero, Janice G.; Van Arsdell, Scott  
W.; Yocum, Rogers R.

PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.

SOURCE: Eur. Pat. Appl., 27 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 892066	A1	19990120	EP 1998-112825	19980710
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 2002098556	A1	20020725	US 1997-914332	19970714
CN 1210149	A	19990310	CN 1998-103370	19980713
BR 9802569	A	20000321	BR 1998-2569	19980713
JP 11127887	A2	19990518	JP 1998-198191	19980714

PRIORITY APPLN. INFO.: US 1997-914332 A 19970714

AB A process is disclosed for the increased prodn. of biotin and the biotin precursor dethiobiotin using a bacterium that produces a lysine-utilizing DAPA **aminotransferase**. The process involves the use of a bacterium that is either grown in the presence of lysine or deregulated for lysine biosynthesis.

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 60 OF 63 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:522736 CAPLUS

DOCUMENT NUMBER: 122:257993

TITLE: Use of the biotin biosynthesis operon in *Bacillus subtilis* for biotin fermentative preparation

INVENTOR(S): Bower, Stanley Grant; Perkins, John B.; Pero, Janice  
G.; Yocum, R. Rogers

PATENT ASSIGNEE(S): F. Hoffmann-La Roche AG, Switz.

SOURCE: Eur. Pat. Appl., 75 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 635572	A2	19950125	EP 1994-108998	19940613
EP 635572	A3	19950308		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL				
CN 1106066	A	19950802	CN 1994-107234	19940624
JP 07231789	A2	19950905	JP 1994-143672	19940624
US 6057136	A	20000502	US 1996-676818	19960708
US 6303377	B1	20011016	US 1999-407549	19990928

PRIORITY APPLN. INFO.: US 1993-84709 A 19930625

US 1994-239430 A 19940506

US 1996-676817 A3 19960708

AB The present invention is directed to DNA sequences of genes that encode a biotin biosynthetic enzyme of *Bacillus subtilis* or of a closely related species thereof, vectors comprising such DNA sequences, cells comprising such DNA sequences, and vectors and a process for the prodn. of



biotin by such cells. Complementation expts. with Escherichia coli, gene mutant in bioA, bioB, bioC, bioD, bioF, and bioH, and further characterization by marker-rescue and complementation expts with known B. subtilis biotin mutants in bioA, bioB, and bioF showed that in B. subtilis all 6 of these biotin biosynthetic genes are contained on a single DNA fragment of .apprx.8 kb. A detailed restriction map of this fragment was obtained, and an anal. of overlapping clones, deletion mutants, subclones, and their resp. nucleotide sequences allowed the genes to be located in the order bioW, bioA, bioF, bioD, bioB, bioI, and ORF2. The bioI gene is a newly identified gene which codes for a cytochrome P 450-like enzyme. A strategy is presented to overexpress the entire B. subtilis bio operon (which, when engineered with a strong promoter, is unexpectedly toxic to E. coli) by cloning 2 bio operon fragments sep., combining them in vitro, and transforming the host organism with the resulting ligated construction. The regulatory regions of the bio operon (promoter, terminator, etc.) were mutated for improved biotin biosynthesis. Mutant birA strains with integrated and amplified copies of the wild-type bio operon gave yields up to 2000 .mu.g/L biotin.

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COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
88.88	91.21

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
-1.24	-1.24

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AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Aug 2, 2002 (20020802/UP).

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(FILE 'HOME' ENTERED AT 16:14:19 ON 08 AUG 2002)

INDEX 'ADISALERTS, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOURCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CANCERLIT, CAPLUS, CEABA-VTB, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 16:14:44 ON 08 AUG 2002

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1 FILE AGRICOLA  
4 FILE AQUASCI  
44 FILE BIOSIS  
5 FILE BIOTECHABS  
5 FILE BIOTECHDS  
34 FILE BIOTECHNO  
1 FILE CABA  
86 FILE CAPLUS  
1 FILE CEN  
1 FILE CONFSCI  
1 FILE CROPU  
7 FILE DDFB  
8 FILE DDFU  
4 FILE DGENE  
7 FILE DRUGB  
11 FILE DRUGU  
1 FILE EMBAL

55 FILE EMBASE  
 18 FILE ESBIODBASE  
 1 FILE FEDRIP  
 1 FILE FSTA  
 233 FILE GENBANK  
 1 FILE IFIPAT  
 7 FILE JICST-EPLUS  
 14 FILE LIFESCI  
 47 FILE MEDLINE  
 1 FILE NTIS  
 9 FILE PASCAL  
 1 FILE PROMT  
 52 FILE SCISEARCH  
 7 FILE TOXCENTER  
 180 FILE USPATFULL  
 2 FILE WPIDS  
 2 FILE WPINDEX  
 1 FILE NLDB

L1 QUE AMINOTRANSFERAS? AND SUBTILI?  
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FILE 'GENBANK, USPATFULL, CAPLUS, EMBASE, SCISEARCH, MEDLINE, BIOSIS,  
 BIOTECHNO, ESBIODBASE, LIFESCI, DRUGU, PASCAL' ENTERED AT 16:17:06 ON 08  
 AUG 2002

L2 783 S AMINOTRANSFERAS? AND SUBTILI?  
 L3 593 DUP REM L2 (190 DUPLICATES REMOVED)  
 L4 138 S L3 AND BIOTI?  
 L5 63 S L3 AND (DIAMINOPELARGON? OR ADENOSYLMETHIONI?)  
 L6 63 FOCUS L5 1-

FILE 'STNGUIDE' ENTERED AT 16:29:25 ON 08 AUG 2002

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FULL ESTIMATED COST	0.18	91.39

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.24

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 STN INTERNATIONAL SESSION SUSPENDED AT 16:31:23 ON 08 AUG 2002